ance of vegetable and animal organisms in the great ocean. Nor should it be forgotten that meteorology promises to be exalted into a science by the late discoveries, in regard to the "wind returning according to his circuits."

Now, all these balanced and balancing processes necessarily involve the most skilful adjustments of the properties of air, earth, and water, and of organic and animal life the one to the other.

SECONDLY, THERE IS THE ADJUSTMENT OF BODIES IN RESPECT TO QUANTITY.

We have just been noticing how needful it is that the atmosphere should keep its present composition. That composition is approximately as follows, in tons:—

Nitrogen,	3,094,592,925,000,000
Oxygen,	1,233,010,020,000,000
Carbonic Acid,	6/287,305,000,000
Aqueous Vapour,	54,450,750,000,000
	6,287,350,000,000,000

The four elements of the atmosphere—oxygen, nitrogen, carbon, and hydrogen—are also the essential elements of all vegetable and animal substances; and the two, the atmosphere above and organized substances on the earth, being thus to a great extent the same in their composition, are made to sustain each other's functions. JFor the respiration of human beings, one thousand millions of pounds of oxygen are daily required, and four times this quantity are necessary lor all the functions of nature, including the respiration of man and animals, combustion, fermentation, and decay. The very statement is sufficient to show how admirable the adjustment of the relative mass and the total mass of these separate elements must be, in order to keep in motion the mechanism of nature. An atmosphere of a different composition, or liable to material changes in respect of any of its component parts, would have been utterly unfitted to support either animal or vegetable existence*

Every one knows how powerful an influence the ocean exercises upon the temperature of our globe. A change in

this quantity of its wafers, or in their distribution, might speedily extinguish both the flora and fauna of the earth. It has been shown, that, in order to the existence of organic beings, there must be the most skilful adjustment between their structure and habits on the